

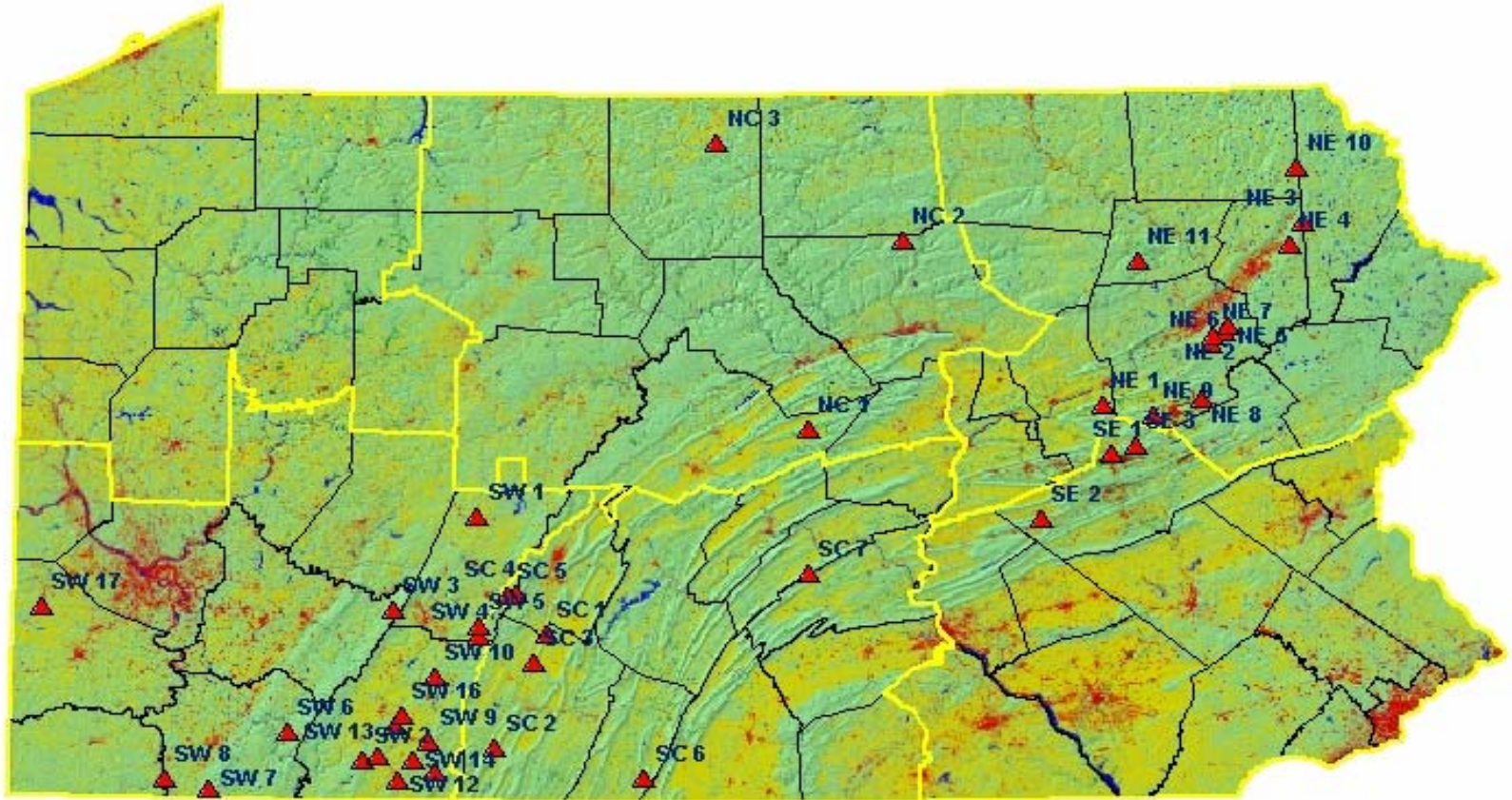


# **Commercial Wind Development on Pennsylvania State Game Lands Review Guidelines**

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Approximately 1.4 million acres of Pennsylvania  
is State Game Lands

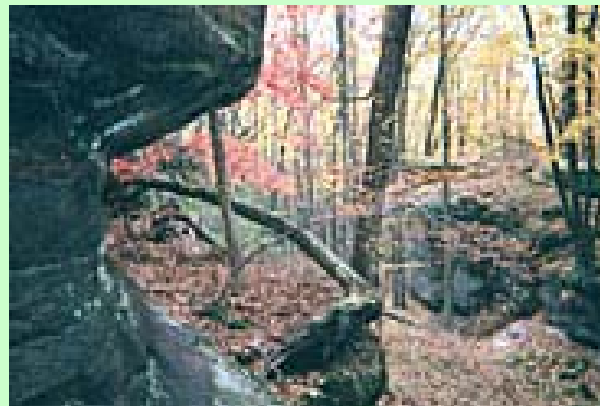


42 projects currently proposed/active in PA  
6 proposed for Game Lands in 2006

# State Game Lands are largely used for:



- Hunting/trapping & other recreational activities
- Wildlife Habitat Management
- Promote Wildlife Population Diversity
- Protect, Propagate, Manage and Preserve the game and wildlife of Pennsylvania

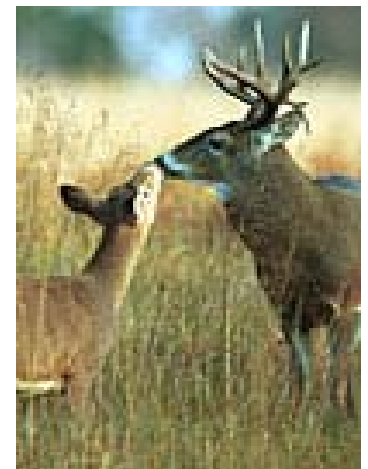




# Wind-Energy Projects are an Incompatible use of Game Lands



- 150 yard safety zone = 14.6 acres impact per each tower location
- Additional impact of Footprint of wind-development infrastructure
- Loss of intended use of Game Lands



# Potential Impacts Criteria

- **Interior/indenture**
- **Propagation area**
- **Important Bird area**
- **Important Mammal area**
- **Threatened/Endangered species**
- **Historical area**
- **Migratory flyway**
- **Critical/unique wildlife habitat**
- **Forest fragmentation**
- **Federal/state funded purchase**
- **Partnership habitat enhancement work**
- **View shed impact**
- **Recreation use impacts, hiking, hunting, trapping, shooting ranges, etc.**
- **Wildlife food plot**
- **Bisects land and access opportunity**
- **Farm-share crop agreement**
- **Other Right -of -Ways already approved**



# Guidelines for Review Initial Stage



- Questionnaire for Internal Review
- Document presence/absence of Potential Impact Criteria
- Agree to further review **OR** provide a documented negative response with particulars
- Do not encourage analytical testing, unless warranted



# Guidelines for Review Protect/Minimize/Monitor

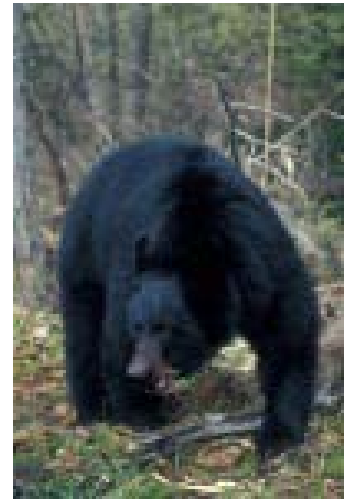


## *IF WARRANTED:*

- Ensure an Alternative Analysis is completed and an Environmental Impact Assessment
- Develop a well-coordinated monitoring plan for potential wildlife impacts, particularly bats and birds
- Refer to USFW “Interim Guidelines to Avoid and Minimize Wildlife Impacts from Wind Turbines”
- Adjust/revise as needed to protect and minimize impacts, (as the State’s wildlife Agency, set the example)



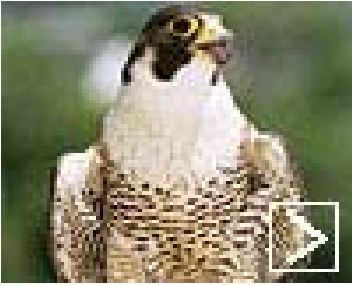
# Guidelines for Review



*Situational Awareness to Warrant Land-Exchange:*

- Abandoned mine area/Brown fields
- Small indenture (part of an already large existing project)
- Envelopment of existing Game Lands
- Pre-determined few probable adverse impacts noted
- Begin Land-Exchange negotiation





# Final End Result



- Identify acceptable replacement lands (minimum 1:1 with higher recreation and habitat values, greater management opportunity, better accessibility, etc.)
- Keep remaining recreational opportunities, limit wildlife habitat impacts, except/reserve timber, oil/gas, minerals
- Ensure strict monitoring/compliance with ability to further minimize known adverse impacts (USFW guidelines, PGC BMP's, E.I.S. w/public review and involvement)
- Allow for future “Option to Buy” previously owned PGC land for \$1 upon 25% electric generation output below average of highest 3 years on record
- Negotiate other potential values for future sustained revenues on yearly payment/tower; royalties/kw, and free electricity credit



# Advantages:



- Allows for renewable energy resource development to occur
- Protects, minimizes, and provides immediate compensation for wildlife related losses from the project's development
- Provides immediate and future return to the public and meets with the Pennsylvania Game Commission's purview
- Advances knowledge of potential impacts to bats and birds and future wind-energy site selection criteria
- Does not falsely encourage Industry to initiate project proposals on State Game Lands
- Ensures conservation measures and best management practices for bats and birds
- Provides critical needed information for future pending approvals from Local/State/Federal oversight